

# **House of Representatives**

General Assembly

File No. 146

January Session, 2005

Substitute House Bill No. 6892

House of Representatives, April 4, 2005

The Committee on Public Safety and Security reported through REP. DARGAN of the 115th Dist., Chairperson of the Committee on the part of the House, that the substitute bill ought to pass.

# AN ACT ENSURING THE SAFETY OF ELEVATORS, ESCALATORS AND LIFTS IN CONNECTICUT BY ADOPTING VARIOUS PROVISIONS OF THE NATIONAL MODEL ELEVATOR SAFETY ACT.

Be it enacted by the Senate and House of Representatives in General Assembly convened:

- 1 Section 1. Subsection (a) of section 29-192 of the general statutes is
- 2 repealed and the following is substituted in lieu thereof (Effective
- 3 *October* 1, 2005):
- 4 (a) Each elevator or escalator used or intended for use in this state
- 5 shall be constructed, equipped, maintained and operated, with respect
- 6 to the supporting members, elevator car, shaftway, guides, cables,
- 7 doors and gates, safety stops and mechanisms, locking mechanisms,
- 8 electrical apparatus and wiring, mechanical apparatus, counterweights
- 9 and all other appurtenances, so as to sustain safely the load which it is
- 10 designed and intended to carry according to the provisions of this
- 11 chapter and the regulations of the commissioner adopted in
- 12 accordance with the provisions of chapter 54. <u>In adopting such</u>

13 regulations, the commissioner may incorporate, by reference, the

- 14 <u>safety code for elevators and escalators, or any amendment thereto, as</u>
- 15 set forth by the American Society of Mechanical Engineers or
- 16 standards concerning safety requirements for personnel hoists and
- 17 <u>employee elevators for construction and demolition operations, or any</u>
- 18 amendment thereto, as set forth by the American National Standards
- 19 <u>Institute.</u>
- Sec. 2. Section 29-195 of the general statutes is repealed and the
- 21 following is substituted in lieu thereof (*Effective October 1, 2005*):
- 22 <u>(a) Each elevator inspector employed by the department to inspect</u>
- 23 elevators and escalators shall be licensed as an unlimited elevator
- 24 journeyman in accordance with chapter 393.
- 25 (b) Each elevator or escalator shall be thoroughly inspected by a
- 26 department elevator inspector who meets the qualifications specified
- 27 <u>in subsection (a) of this section</u> at least once each eighteen months,
- 28 except private residence elevators, as defined in the regulations
- 29 adopted pursuant to section 29-192, as amended by this act, shall be
- 30 inspected upon the request of the owner. More frequent inspections of
- 31 any elevator or escalator shall be made if the condition thereof
- indicates that additional inspections are necessary or desirable.
- Sec. 3. Section 20-330 of the general statutes is repealed and the
- 34 following is substituted in lieu thereof (*Effective October 1, 2005*):
- 35 As used in this chapter:
- 36 (1) "Contractor" means any person regularly offering to the general
- 37 public services of such person or such person's employees in the field
- 38 of electrical work, plumbing and piping work, solar work, heating,
- 39 piping, cooling and sheet metal work, fire protection sprinkler systems
- 40 work, elevator installation, repair and maintenance work, irrigation
- 41 work, automotive glass work or flat glass work, as defined in this
- 42 section;
- 43 (2) "Electrical work" means the installation, erection, maintenance,

alteration or repair of any wire, cable, conduit, busway, raceway, support, insulator, conductor, appliance, apparatus, fixture or equipment that generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, but does not include low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system;

- (3) "Plumbing and piping work" means the installation, repair, replacement, alteration or maintenance of gas, water and associated fixtures, laboratory equipment, sanitary equipment, other than subsurface sewage disposal systems, fire prevention apparatus, all water systems for human usage, sewage treatment facilities and all associated fittings within a building and includes lateral storm and sanitary lines from buildings to the mains, process piping, swimming pools and pumping equipment, and includes making connections to back flow prevention devices, and includes low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system, but does not include (A) solar work, except for the repair of those portions of a solar hot water heating system that include the basic domestic hot water tank and the tie-in to the potable water system, (B) the installation, repair, replacement, alteration or maintenance of fire prevention apparatus within a structure, except for standpipes that are not connected to sprinkler systems, and (C) medical gas and vacuum systems work. For the purposes of this subdivision, "process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption;
- 69 (4) "Solar work" means the installation, repair, replacement, 70 alteration or maintenance of an active, passive or hybrid solar hot 71 water heating system;
  - (5) "Heating, piping and cooling work" means (A) the installation, repair, replacement, maintenance or alteration of any apparatus for piping, appliances, devices or accessories for heating systems, including sheet metal work, and (B) the installation, repair, replacement, maintenance or alteration of air conditioning and

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refrigeration systems, boilers, including apparatus and piping for the generation or conveyance of steam and associated pumping equipment and process piping. Heating, piping and cooling work does not include solar work or medical gas and vacuum systems work. For the purposes of this subdivision, "process piping" means piping or tubing that conveys liquid or gas that is used directly in the production of a product for human consumption;

- (6) "Apprentice" means any person registered with the Labor Department for the purpose of learning a skilled trade;
- 86 (7) "Elevator installation, repair and maintenance work" means the 87 [installation, erection, maintenance and repair] erection, construction, 88 installation, alteration, service, testing, repair, maintenance or 89 demolition of all types of elevators, dumb waiters, platform lifts, 90 stairway chairlifts, escalators [,] and moving walks and all mechanical 91 equipment, fittings, associated piping and wiring from a source of 92 supply brought to the equipment room by an unlimited electrical 93 contractor for all types of machines used to hoist or convey persons or 94 materials, but does not include (A) temporary hoisting machines used 95 for hoisting materials in connection with any construction job or 96 project, (B) the removal or dismantling of conveyances destroyed 97 during the demolition of a building or structure, or (C) the demolition 98 of a hoistway or wellway to the basic supporting structure where no 99 access by the general public is permitted;
- [(8) "Elevator maintenance" means the lubrication, inspection and replacement of controls, hoistway and car parts;]
  - [(9)] (8) "Fire protection sprinkler systems work" means the layout, on-site fabrication, installation, alteration, maintenance or repair of any automatic or manual sprinkler system designed for the protection of the interior or exterior of a building or structure from fire, or any piping or tubing and appurtenances and equipment pertaining to such system including overhead and underground water mains, fire hydrants and hydrant mains, standpipes and hose connections to sprinkler systems, sprinkler tank heaters excluding electrical wiring,

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air lines and thermal systems used in connection with sprinkler and

- alarm systems connected thereto, foam extinguishing systems or
- special hazard systems including water spray, foam, carbon dioxide or
- dry chemical systems, halon and other liquid or gas fire suppression
- 114 systems, but does not include (A) any engineering design work
- 115 connected with the layout of fire protection sprinkler systems, or (B)
- any work performed by employees of or contractors hired by a public
- water system, as defined in subsection (a) of section 25-33d;
- [(10)] (9) "State Fire Marshal" means the State Fire Marshal or any
- member of the Division of State Police to whom the Commissioner of
- 120 Public Safety has delegated powers under section 29-291;
- [(11)] (10) "Journeyman sprinkler fitter" means a specialized pipe
- 122 fitter craftsman, experienced and skilled in the installation, alteration,
- maintenance and repair of fire protection sprinkler systems;
- [(12)] (11) "Irrigation work" means making the connections to back
- 125 flow prevention devices, and low voltage wiring, not exceeding
- twenty-four volts, used within a lawn sprinkler system;
- [(13)] (12) "Sheet metal work" means the installation, erection,
- 128 replacement, repair or alteration of duct work systems, both ferrous
- 129 and nonferrous;
- [(14)] (13) "Journeyman sheet metal worker" means an experienced
- 131 craftsman skilled in the installation, erection, replacement, repair or
- alteration of duct work systems, both ferrous and nonferrous;
- [(15)] (14) "Automotive glass work" means installing, maintaining or
- 134 repairing fixed glass in motor vehicles;
- 135 [(16)] (15) "Flat glass work" means installing, maintaining or
- 136 repairing glass in residential or commercial structures; and
- [(17)] (16) "Medical gas and vacuum systems work" means the work
- and practice, materials, instrumentation and fixtures used in the
- 139 construction, installation, alteration, extension, removal, repair

maintenance or renovation of gas and vacuum systems and equipment

- 141 used solely to transport gases for medical purposes and to remove
- liquids, air-gases or solids from such systems.
- Sec. 4. Subsection (c) of section 20-331 of the general statutes is
- 144 repealed and the following is substituted in lieu thereof (Effective
- 145 *October 1, 2005*):
- (c) The Heating, Piping, Cooling and Sheet Metal Work Board shall
- 147 consist of twelve members who shall be residents of this state and,
- except as otherwise provided in this subsection, (1) one of whom shall
- be a general contractor or an unlimited contractor licensed to perform
- 150 heating, piping and cooling work under this chapter, (2) two of whom
- shall be unlimited contractors licensed to perform heating, piping and
- 152 cooling work under this chapter, neither of whom at the time of
- appointment shall be a member or an employee of a member of a trade
- union or a party or an employee of a party to a contract with a trade
- union, (3) one of whom shall be a limited contractor licensed to
- 156 perform sheet metal work under this chapter, provided such member's
- powers and duties on the board shall be limited to matters concerning
- sheet metal work, as defined in [subdivision (13) of] section 20-330, as
- amended by this act, (4) three of whom shall be unlimited journeymen
- licensed to perform heating, piping and cooling work under this
- 161 chapter, who at the time of appointment shall be members of a trade
- union, (5) one of whom shall be a journeyman sheet metal worker,
- 163 who at the time of appointment shall be a member of a trade union,
- provided such member's powers and duties shall be limited to matters
- 165 concerning sheet metal work, as defined in [subdivision (13) of] section
- 20-330, as amended by this act, and (6) four of whom shall be public
- members. Each person who is a member of the board on October 1,
- 168 1999, shall continue to serve at the pleasure of the Governor.
- Sec. 5. Subsection (e) of section 20-331 of the general statutes is
- 170 repealed and the following is substituted in lieu thereof (Effective
- 171 *October 1, 2005*):
- (e) The Elevator Installation, Repair and Maintenance Board shall

173 consist of eight members who shall be residents of this state, [three] 174

- two of whom shall be unlimited contractors [,] and two of whom shall
- 175 be unlimited elevator [craftsmen] journeymen, licensed for such
- 176 occupation under this chapter, one of whom shall represent an elevator
- 177 trade labor organization and three of whom shall be public members. [,
- 178 provided at least one of the unlimited contractors shall be a member of
- 179 either the National Association of Elevator Contractors or the National
- 180 Elevator Industries, Incorporated.]
- 181 Sec. 6. Subsection (a) of section 20-334a of the general statutes is
- 182 repealed and the following is substituted in lieu thereof (Effective
- 183 *October 1, 2005*):
- 184 (a) Except as otherwise provided in this section, the following
- 185 licenses may be issued by the Department of Consumer Protection,
- 186 upon authorization of the boards, under the provisions of section
- 187 20-333:
- 188 (1) (A) An unlimited contractor's license may be issued to a person
- 189 who has served as a journeyman in the trade for which such person
- 190 seeks a license for not less than two years and, if such service as a
- 191 journeyman was outside this state, has furnished evidence satisfactory
- 192 to the appropriate state board that such service is comparable to
- 193 similar service in this state, or has furnished satisfactory evidence of
- 194 education and experience and has passed an examination which has
- 195 demonstrated that such person is competent in all aspects of such
- 196 trade to be an unlimited contractor. (B) A limited contractor's license
- 197 may be issued to a person who fulfills the requirements of
- 198 subparagraph (A) of this subdivision as to a specific area or areas
- 199 within the trade for which such person seeks a license. (C) The holder
- 200 of an unlimited or a limited contractor's license may, within the trade,
- 201 or the area or areas of the trade, for which such holder has been
- 202 licensed, furnish supplies and do layout, installation, repair and
- 203 maintenance work and distribute and handle materials, provided
- 204 nothing in this subdivision shall be construed to authorize the
- 205 performance of any action for which licensure is required under the

provisions of chapter 390 or 391. Such licensee shall furnish the board with evidence that such licensee will comply with all state requirements pertaining to workers' compensation and unemployment insurance and that such evidence shall be available to any properly interested person prior to the issuance of a license under this subdivision.

- (2) (A) An unlimited journeyman's license may be issued to any person who has completed a bona fide apprenticeship program, including not less than four years' experience in the trade for which such person seeks a license, and has demonstrated such person's competency to perform all services included in the trade for which a license is sought by successfully completing the applicable state licensure examination. (B) A limited journeyman's license may be issued to a person who fulfills the requirements of subparagraph (A) of this subdivision in a specific area or areas of the trade for which such person seeks a license, provided the length of experience required may be less than four years for such area or areas of the trade.
- [(3) (A) An elevator craftsman's license may be issued to any person who has completed an apprenticeship program, has at least two years' experience in elevator installation, repair and maintenance work and has demonstrated such person's competency to perform such work. (B) An elevator helper's license may be issued for the performance of elevator maintenance under the supervision of an elevator craftsman.]
- [(4)] (3) An apprentice's permit may be issued for the performance of work in a trade licensed under the provisions of this chapter, for the purpose of training, which work may be performed only under the supervision of a licensed contractor, journeyman or <u>unlimited</u> elevator [craftsman] journeyman.
- [(5)] (4) An apprentice permit shall expire upon the failure of the apprentice holding such permit to apply for the first licensure examination given by the department following completion of an apprentice training program as provided in subdivision (2) of this subsection.

Sec. 7. Subsection (c) of section 20-334a of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):

- (c) The following licenses for fire protection sprinkler systems work may be issued by the department: (1) A fire protection sprinkler contractor's license may be issued to a person who provides satisfactory evidence of education and experience in fire protection sprinkler systems work, as defined in [subdivision (9) of] section 20-330, as amended by this act, and who has passed an examination which has demonstrated competence in all aspects of such trade. Applicants for such license shall complete a form provided by the commissioner; and (2) a journeyman sprinkler fitter's license may be issued to a person who has completed a bona fide apprenticeship program pursuant to section 20-334c, and who has not less than four years experience in fire protection sprinkler systems work, as defined in [subdivision (9) of] section 20-330, as amended by this act, or who has been licensed under this section, and has passed an examination which has demonstrated competence in all aspects of such trade. Applicants for such license shall complete a form provided by the department.
- Sec. 8. Section 20-334d of the general statutes is repealed and the following is substituted in lieu thereof (*Effective October 1, 2005*):`
- 261 (a) As used in this section:

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- (1) "Accredited continuing professional education" means any education of an electrician, [or] plumber or unlimited elevator journeyman that is designed to maintain professional competence in the pursuit, practice and standards of electrical work, [or] plumbing and piping work or elevator installation, repair and maintenance work and that is approved by the commissioner and is provided by an organization, institution or agency that is approved by the commissioner;
- (2) "Certificate of continuing education" means a document issued

to an electrician, [or] plumber or unlimited elevator journeyman by an organization, institution or agency approved by the commissioner that offers accredited continuing professional education, which (A) certifies that an electrician, [or] plumber or unlimited elevator journeyman has satisfactorily completed a specified number of continuing education hours, and (B) bears the name of such organization, institution or agency, the title of the program, the dates during which the program was conducted, the number of continuing education hours satisfactorily completed and the signature of the director of such organization, institution or agency or the signature of the director's authorized agent;

- 282 (3) "Commissioner" means the Commissioner of Consumer 283 Protection.
- (b) The commissioner, with the advice and assistance of the Electrical Work Board established pursuant to subsection (b) of section 20-331, shall adopt regulations, in accordance with chapter 54, to (1) establish requirements for accredited continuing professional education for electricians licensed pursuant to sections 20-330 to 20-341, inclusive, as amended by this act; (2) establish qualifying criteria for accredited continuing professional education programs and establish qualifying criteria for acceptable certificates of continuing education; and (3) provide for the waiver of required accredited continuing professional education for electricians for good cause.
  - (c) The commissioner, with the advice and assistance of the Plumbing and Piping Work Board established pursuant to subsection (d) of section 20-331, shall adopt regulations, in accordance with chapter 54, to (1) establish requirements for accredited continuing professional education for plumbers licensed pursuant to sections 20-330 to 20-341, inclusive; (2) establish qualifying criteria for accredited continuing professional education programs and establish qualifying criteria for acceptable certificates of continuing education; and (3) provide for the waiver of required accredited continuing professional education for plumbers for good cause.

(d) The commissioner, with the advice and assistance of the Elevator Installation, Repair and Maintenance Board established pursuant to subsection (e) of section 20-331, as amended by this act, shall adopt regulations, in accordance with chapter 54, to (1) establish requirements for accredited continuing professional education for unlimited elevator journeymen licensed pursuant to sections 20-330 to 20-341, inclusive, as amended by this act; (2) establish qualifying criteria for accredited continuing professional education programs and establish qualifying criteria for acceptable certificates of continuing education; and (3) provide for the waiver of required accredited continuing professional education for unlimited elevator journeymen for good cause.

- Sec. 9. Subsection (g) of section 20-340b of the general statutes is repealed and the following is substituted in lieu thereof (*Effective* 318 October 1, 2005):
- 319 (g) A registered public service technician may not supervise any 320 duly registered apprentice performing work under a permit issued 321 pursuant to [subdivision (4) of] subsection (a) of section 20-334a, as 322 amended by this act.
- Sec. 10. Subsection (g) of section 20-540 of the general statutes is repealed and the following is substituted in lieu thereof (*Effective* October 1, 2005):
- 326 (g) A registered public service gas technician may not supervise any 327 duly registered apprentice performing work under a permit issued 328 pursuant to [subdivision (4) of] subsection (a) of section 20-334a, as 329 amended by this act.

This act shall take effect as follows and shall amend the following sections:					
Section 1	October 1, 2005	29-192(a)			
Sec. 2	October 1, 2005	29-195			
Sec. 3	October 1, 2005	20-330			
Sec. 4	October 1, 2005	20-331(c)			

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Sec. 5	October 1, 2005	20-331(e)
Sec. 6	October 1, 2005	20-334a(a)
Sec. 7	October 1, 2005	20-334a(c)
Sec. 8	October 1, 2005	20-334d
Sec. 9	October 1, 2005	20-340b(g)
Sec. 10	October 1, 2005	20-540(g)

**PS** Joint Favorable Subst.

The following fiscal impact statement and bill analysis are prepared for the benefit of members of the General Assembly, solely for the purpose of information, summarization, and explanation, and do not represent the intent of the General Assembly or either House thereof for any purpose:

#### **OFA Fiscal Note**

# State Impact:

Agency Affected	Fund-Effect	FY 06 \$	FY 07 \$
Public Safety, Dept.	GF - Cost	Minimal	Minimal
Consumer Protection, Dept.	GF - Revenue	Minimal	Minimal
	Impact		

Note: GF=General Fund

# Municipal Impact: None

# Explanation

The bill replaces elevator helper and elevator craftsmen licenses, and requires that elevator inspectors be licensed as unlimited elevator journeymen.

The Department of Public Safety employs twelve elevator inspectors. Under this bill, the Department would be responsible for maintaining the inspectors licenses as unlimited elevator journeymen. In order to maintain the required license, the inspectors would need to complete continuous education training classes, offered by the Department of Consumer Protection. The cost to enroll in the training is approximately \$100 per person. Currently, training classes are only offered on week nights and Saturdays. The Department of Public Safety would have to pay inspectors overtime to attend the training session. The cost impact to the Department of Public Safety would be minimal. However, the Department of Consumer Protection would experience a minimal revenue gain as a result of the additional training sessions.

The bill replaces the elevator craftsman and elevator helper licenses with an unlimited elevator journeyman license which involves a continuing education component and a four-year apprenticeship. There are currently 29 active elevator helper licenses and 306 unlimited

elevator journeyman licenses in the state. The application fee for the unlimited elevator license is \$45 while the initial license fee and renewal fee are \$60 each. As a result of the change in fee structure in the bill, the state will experience a minimal revenue impact.

# **OLR Bill Analysis**

sHB 6892

AN ACT ENSURING THE SAFETY OF ELEVATORS, ESCALATORS AND LIFTS IN CONNECTICUT BY ADOPTING VARIOUS PROVISIONS OF THE NATIONAL MODEL ELEVATOR SAFETY ACT

#### SUMMARY:

This bill replaces the elevator craftsman and elevator helper licenses, which are required for elevator installation, repair, and maintenance work (elevator work), with an unlimited elevator journeyman license, which involves a continuing education component and a four-year apprenticeship. The bill broadens the definition of elevator work and modifies the composition of the Elevator Installation, Repair, and Maintenance Board, which oversees the trade and is within the Department of Consumer Protection (DCP). It also requires Department of Public Safety (DPS) elevator inspectors to be licensed as unlimited elevator journeymen.

The bill requires the DCP commissioner, with board advice and assistance, to adopt regulations establishing criteria for continuing professional education, continuing professional education programs, and waivers for elevator journeymen.

The bill allows the DPS commissioner to incorporate, by reference, in elevator regulations he must adopt under existing law, the American Society of Mechanical Engineers safety code for elevators and escalators or the American National Standards Institute standards concerning safety requirements for personnel hoists and employee elevators for construction and demolition operations.

The bill also makes conforming and related changes.

EFFECTIVE DATE: October 1, 2005

#### ELEVATOR AND ESCALATOR INSPECTION

# Licensing Requirement

Under current law, a person must hold (1) a DCP elevator craftsman license to perform elevator work, (2) a DCP elevator helper license to perform elevator maintenance under an elevator craftsman's supervision, and (3) a DCP apprentice permit to train under an elevator craftsman's supervision. An applicant for an elevator craftsman's license must have completed an apprenticeship program, have at least two years experience in elevator work, and demonstrate his competence to perform such work.

The bill replaces the craftsman and helper licenses with an journeyman license. To obtain the journeyman license, an applicant must have completed an apprenticeship program, which must include at least four years of experience doing elevator work, and demonstrate competence in all areas of the trade.

The bill requires the DCP commissioner, with board advice and assistance, to adopt regulations (1) establishing requirements for accredited continuing professional education for licensed elevator journeymen, (2) establishing qualifying criteria for continuing professional education programs and acceptable continuing education certificates, and (3) providing waivers of required accredited continuing professional education for elevator journeymen for good cause.

# Elevator Installation, Repair and Maintenance Work

Under current law, elevator work means the installation, erection, maintenance, and repair of elevators and related equipment. The bill adds construction, alteration, service, testing, and demolition. It also adds such work performed on platform lifts and stairway chairlifts. It deletes the definition of "elevator maintenance" as the lubrication, inspection, and replacement of controls, hoistway, and car parts.

Under current law, elevator work does not include work on temporary hoisting machines used to hoist material in construction projects. The bill also excludes the removal or dismantling of conveyances destroyed during the demolition of a building or structure or the demolition of a hoistway or wellway to the basic supporting structure where public access is barred.

#### Elevator Inspection Work

By law, DPS inspectors must inspect elevators and escalators at least every 18 months, except those in private residences, which they must inspect at the owners' request. The bill requires the inspectors to be licensed by DCP as elevator journeymen.

# Elevator Installation, Repair and Maintenance Board

The bill modifies the composition of this eight-member board by replacing one of the three unlimited contractors with an elevator trade labor organization representative, and eliminating a requirement that at least one of the unlimited contractors be a member of either the National Association of Elevator Contractors or the National Elevator Industries, Inc.

#### BACKGROUND

# Occupational Licensing System

State law establishes a licensing system for several trades overseen by different licensing boards, including the Elevator Installation, Repair and Maintenance Board. They have the power to determine who qualifies for a license and to enforce standards by disciplining licensees. Boards may create limited licenses authorizing their holders to work in a specific area of a trade. Each trade has different levels of expertise—apprentice, journeyman, and contractor. Workers must meet education, training, and experience requirements to qualify for each level. The boards establish less extensive requirements for workers attempting to qualify for a limited license. DCP's duties to the boards include receiving complaints, carrying out investigations, and performing administrative tasks, such as physically issuing licenses and renewals.

#### COMMITTEE ACTION

Public Safety and Security Committee

Joint Favorable Substitute Yea 22 Nay 0